



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company



Job No.: CTCE/BBMP/W.No.10/RLN/CEMENT/2012-13



Date: 21.03.2013

TEST REPORT

CLIENT	:	Asst. Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.
AGENCY	:	Mr. R. Lakshminarayana, Contractor, Bangalore.
NAME OF THE WORK	:	Construction of RCC Drain, Covering Slab and Improvements to Roads at 1 st Main Nanjappa Layout in Ward No.10, Doddabommasandra, Vidyananyapura Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/VSD/PR/462/2012-13 Dated: 18.03.2013
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	485 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

Note:

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ಸಹಾಯಕ ಮುಖ್ಯ ವಿಜ್ಞಾನಿ ಅಧೀನಕರಣ.
ವಿದ್ಯಾನಯನಪುರ ಉಪ ವಿಭಾಗ,
ಯಲಹಂಕ ವಲಯ,
ಬಿ. ಶಿವ. ಮ. ನಾ. ಬೆಂಗಳೂರು-97

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Job No.: CTCE/BBMP/W.No.10/NNR/SAND/2012-13



: 21.03.2013

TEST REPORT ON FINE AGGREGATES (SAND) IS 383-1970 (RA- 2002)

Client : Asst. Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : Mr. R. Lakshminarayana, Contractor, Bangalore.

Name of Work : Construction of RCC Drain, Covering Slab and Improvements to Roads at 1st Main Nanjappa Layout in Ward No.10, Doddabommasandra, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/VSD/PR/462/2012-13 Dated: 18.03.2013

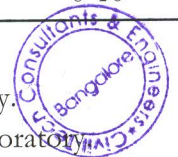
Date of Testing : 21.03.2013

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	98	4.90	4.90	95.1	90-100
2.36	231	11.55	16.45	83.6	75-100
1.18	512	25.60	42.05	58.0	55-90
600 Micron	428	21.40	63.45	36.6	35-59
300 Micron	482	24.10	87.55	12.5	8-30
150 Micron	205	10.25	97.80	2.2	0-10

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ಇದರಲ್ಲಿ ನಮೂನೆಗಳನ್ನು
ವಿಶ್ವವಾಣಿ ಮತ್ತು ಇತರ,
ಯಶಸ್ವಿ ಮತ್ತು,
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Job No.: CTCE/BBMP/W.No.10/NNR/AGG/2012-13



: 21.03.2013

TEST REPORT ON COARSE AGGREGATES IS 383-1970 (RA- 2002)

Client : Asst. Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.

Agency : Mr. R. Lakshminarayana, Contractor, Bangalore.

Name of Work : Construction of RCC Drain, Covering Slab and Improvements to Roads at 1st Main Nanjappa Layout in Ward No.10, Doddabommasandra, Vidyanarayapura Sub Division, BBMP, Bangalore.

Reference : AEE/VSD/PR/462/2012-13 Dated: 18.03.2013

Date of Testing : 21.03.2013

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25800**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	998	3.87	3.87	96.13	95-100
20	15622	60.55	64.42	35.58	30-70
10	6280	24.34	88.76	11.24	10-35
4.75	2575	9.98	98.74	1.26	0-5

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Job No.: CTCE/BBMP/W.No.10/NNR /STEEL/2012-13

23.03.2013

TEST REPORT ON REINFORCEMENT STEEL



Client : **Asst. Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.**

Agency : **Mr. R. Lakshminarayana, Contractor, Bangalore.**

Name of the work : **Construction of RCC Drain, Covering Slab and Improvements to Roads at 1st Main Nanjappa Layout in Ward No.10, Doddabommasandra, Vidyanarayapura Sub Division, BBMP, Bangalore.**

Reference : **AEE/VSD/PR/462/2012-13 Dated: 18.03.2013**

Date of Test : **23.03.2013**

Technical Reference : **IS: 1786-2008**

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
2	10	0.62	513	553	13.40	O.K	O.K
3	12	0.89	515	557	13.85	O.K	O.K

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Job No.: CTCE/BBMP/W.No.10/NNR/CUBE/2012-13

24.04.2013



TEST REPORT ON CONCRETE CUBES

Client : Asst. Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : Mr. R. Lakshminarayana, Contractor, Bangalore.

Name of the work : Construction of RCC Drain, Covering Slab and Improvements to Roads at 1st Main Nanjappa Layout in Ward No.10, Doddabommasandra, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/VSD/PR/462/2012-13 Dated: 18.03.2013

Sample ID : RCC Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	27.03.2013	24.04.2013	8.275	521.6	23.18
2	27.03.2013	24.04.2013	8.432	532.7	23.68
3	27.03.2013	24.04.2013	8.369	538.4	23.93

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Job No.: CTCE/BBMP/W.No.10/NNR/CUBE/2012-13

27.04.2013



TEST REPORT ON CONCRETE CUBES

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Agency	: Mr. R. Lakshminarayana , Contractor, Bangalore.
Name of the work	: Construction of RCC Drain, Covering Slab and Improvements to Roads at 1st Main Nanjappa Layout in Ward No.10, Doddabommasandra, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/VSD/PR/462/2012-13 Dated: 18.03.2013
Sample ID	: RCC Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	30.03.2013	27.04.2013	8.125	518.3	23.04
2	30.03.2013	27.04.2013	8.369	536.2	23.83
3	30.03.2013	27.04.2013	8.278	527.6	23.45

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